

Application Serial No. 09/810,559
Attorney Docket No. 110275.4500-US2

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Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in this application:

Claims 1 - 65. (Cancelled).

66. (Currently amended) A communications system for transmitting and/or receiving signals with at least two wireless communication devices via at least one of a real time and a polled transmission, said communications system comprising:

at least one first gateway responsively communicable with at least a first wireless communications device and at least a second wireless communications device, wherein said at least one first gateway at least one of transmits and receives signals on a real time basis with the at least one first wireless communications device and the at least one second wireless communications device;

at least one second gateway responsively communicable with the at least one first wireless communications device and at least a third communications device, wherein said at least one second gateway at least one of transmits and receives signals on a polled basis with the at least one first wireless communications device and the at least one third communications device, said at least one first gateway and said at least one second gateway are operatively connectable to each other to perform at least one of the real time and the polled transmission based upon predetermined criteria[.], and

~~wherein said communications system comprises an integrated wireless communications system providing processing means for the sending and receiving of messages on the~~
in real time and the polled transmission, while also allowing users to utilize from a first data message account and by polled transmission from a second data message account, and for

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processing messages to the at least one of the first and second wireless communications
~~devices to check messages stored within~~ from within both the first and second data
message accounts, the second data message account being a separate account using at
least one of POP and IMAP ~~data message account.~~

67. (Previously presented) The system according to claim 66 wherein said at least one second gateway comprises:

a scheduler determining which of the at least one first wireless communication devices are active;

a device action manager receiving notification from said scheduler and monitoring which of said at least one first wireless communication devices have requested to download a message;

a download manager receiving notification via said scheduler at which time messages associated with each of the at least one first wireless communications device are to be downloaded;

a message lookup manager determining an identifier associated with each message associated with each of the at least one first wireless communications device and selecting those messages that have not been downloaded from the at least one third communications device to the at least one first communications device; and

a message processor for retrieving messages not yet downloaded from the third communications device and transmitting the messages to a designated first wireless communications device as determined by a selection system.

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68. (Previously presented) The system according to claim 67 wherein said scheduler further determines the time at which messages for each of the at least one first wireless communications device are downloaded.

69. (Previously presented) The system according to claim 67 wherein said scheduler accesses subscriber information from the selection system to determine user specified download times.

70. (Previously presented) The system according to claim 67 wherein said download manager downloads messages subsequent to receiving an indication from said scheduler and said lookup manager.

71. (Previously presented) The system according to claim 67 wherein said message processor converts the message format of the at least one third communications device to a message format of the at least one first wireless communications device.

72. (Previously presented) The system according to claim 67 wherein said lookup manager deletes message records when corresponding messages are deleted on the at least one third communications device.

73. (Previously presented) The system according to claim 67 wherein each of said at least one first gateways have a common domain name associated therewith.

74. (Previously presented) The system according to claim 66 wherein said at least one

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second gateway further at least one of transmits and receives signals on a real time basis with the at least one first wireless communication device and the at least one second wireless communications device.

75. (Previously presented) The system according to claim 74 wherein network load considerations determine whether said at least one first gateway or said at least one second gateway is used to transmit signals from the at least one first wireless communications device to the at least one second wireless communications device, wherein when system traffic and/or response time is above a predetermined threshold level said at least one second gateway is used.

76. (Previously presented) The system according to claim 66 wherein the signals comprise a facsimile transmitted from the at least one first wireless communications device to the at least one third communications device in real time via said at least one first gateway and said at least one second gateway.

77. (Previously presented) The system according to claim 66 wherein the predetermined criteria comprise an Internet domain name associated with each of the at least one first wireless communications device and the at least one second wireless communications device.

78. (Previously presented) The system according to claim 77 wherein the Internet domain name comprises at least one of a name of an organization or a name of an individual combined with a top level domain name.

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79. (Previously presented) The system according to claim 78 wherein the top level domain names comprise: a) .com; b) .net; c) .org; d) .edu; e) .gov; f) .mil; and g) .int.

80. (Previously presented) The system according to claim 66, wherein the at least one first wireless communications device comprises a wireless messaging device, the at least one second wireless communications device comprises another wireless messaging device, and wherein the predetermined criteria comprises an identifier associated with the at least one first wireless communications device, the at least one second wireless communications device, and the at least one first gateway, wherein the at least one first communications device and the at least one second wireless communications device transmit signals to each other via said at least one first gateway.

81. (Previously presented) The system according to claim 80, wherein said signals comprise an electronic mail message.

82. (Previously presented) The system according to claim 66, wherein the at least one first wireless communications device is a wireless messaging device having a first identifier associated with said at least one first gateway and the at least one third communications device is an e-mail server storing messages for at least one e-mail account, each e-mail account having a second identifier associated therewith, wherein the at least one first wireless communications device and the at least one third communications device transmit signals to each other via said first and second gateways, and wherein the predetermined criteria are respective identifiers associated with each of the at least one first wireless communication device and the at least one third communication device.

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83. (Previously presented) The system according to claim 82 wherein the at least one third communications device is a post office protocol server.

84. (Previously presented) The system according to claim 82 wherein the at least one third communications device is an internet messaging access protocol server.

85. (Previously presented) The system according to claim 67, wherein the selection system allows a user to select at least one of the real time and polled transmission, wherein when the user selects the polled transmission, the signals comprise at least one e-mail message that is retrieved from a specified e-mail account associated with the at least one third communications device and are transmitted to one of the at least one first wireless communications device.

86. (Previously presented) The system according to claim 85 wherein the user selects a name of the specified e-mail account via the selection system.

87. (Previously presented) The system according to claim 86 wherein the user specifies a time at which the at least one e-mail message is transmitted from the at least one third communications device to the at least one first wireless communications device.

88. (Cancelled)

89. (Cancelled)

90. (Previously presented) The system according to claim 66 wherein the signals

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comprise a facsimile at least one of transmitted to and received between the at least one first wireless communications device to the at least one third communications device in real time via said at least one first gateway and said at least one second gateway.

91. (Currently amended) A communications system for transmitting and receiving signals with at least two wireless communication devices via at least one of a real time and a polled transmission, said communications system comprising:

at least one first gateway responsively communicable with at least a first wireless communications device;

at least one second gateway that at least one of transmits and receives signals on a polled basis with the at least one first wireless communications device and at least a second communications device, said at least one first gateway and said at least one second gateway are operatively connectable to each other to perform polled transmission between the at least one first wireless communications device and the at least one second communications device based upon predetermined criteria[,,]; and

processing means for sending and receiving of messages in real time from a first data message account and by polled transmission from a second data message account; and
for

processing messages to the at least one of the first and second wireless communications devices from within both the first and second data message accounts, the second data message account being a separate account using the at least one of POP and IMAP.

~~wherein said communications system comprises the sending and receiving of messages on the real time and the polled transmission, while also allowing users to utilize the at~~

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~~least one first wireless communications device to receive data messages using at least one of a POP and IMAP data message account.~~

92. (Previously presented) The system according to claim 91 wherein said at least one second gateway comprises:

a scheduler determining which of the at least one first wireless communication devices are active;

a device action manager receiving notification from said scheduler and monitoring which of said at least one first wireless communication devices have requested to download a message;

a download manager receiving notification via said scheduler at which time messages associated with each of the at least one first wireless communications device are to be downloaded;

a message lookup manager determining an identifier associated with each message associated with each of the at least one first wireless communications device and selecting those messages that have not been downloaded from the at least one second communications device to the at least one first communications device; and

a message processor for retrieving messages not yet downloaded from the at least one second communications device and transmitting the messages to a designated first wireless communications device as determined by a selection system.

93. (Previously presented) The system according to claim 92 wherein said scheduler further determines the time at which messages for each of the at least one first communications device are downloaded.

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94. (Previously presented) The system according to claim 92 wherein said scheduler accesses subscriber information from the selection system to determine user specified download times.

95. (Previously presented) The system according to claim 92 wherein said download manager downloads messages subsequent to receiving an indication from said scheduler and said lookup manager.

96. (Previously presented) The system according to claim 92 wherein said message processor converts the message format of the at least one second communications device to a message format of the at least one first wireless communications device.

97. (Previously presented) The system according to claim 92 wherein said lookup manager deletes message records when corresponding messages are deleted on the at least one second communications device.

98. (Previously presented) The system according to claim 92, wherein the predetermined criteria comprise an Internet domain name associated with each of the at least one first wireless communications device and the at least one second communications device.

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99. (Previously presented) The system according to claim 98, wherein the Internet domain names comprise at least one of a name of an organization or a name of an individual combined with a top level domain name.

100. (Previously presented) The system according to claim 99 wherein the top level domain names comprise: a) .com; b) .net; c) .org; d) .edu; e) .gov; f) .mil; and g) .int.

101. (Previously presented) The system according to claim 91, wherein the at least one first wireless communications device is a wireless messaging device having a first identifier associated with said at least one first gateway and the at least one second communications device is an e-mail server storing messages for at least one e-mail account, each e-mail account having a second identifier associated therewith, wherein the at least one first wireless communications device and the at least one second communications device transmit signals to each other via said first and second gateways, and wherein the predetermined criteria are respective identifiers associated with each of the at least one first wireless communication device and the at least one second communication device.

102. (Previously presented) The system according to claim 101, wherein said signals comprise an electronic mail message.

103. (Previously presented) The system according to claim 101 wherein the at least one second communications device is a post office protocol server.

104. (Previously presented) The system according to claim 101 wherein the at least one

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second communications device is an internet messaging access protocol server.

105. (Previously presented) The system according to claim 92, wherein the selection system allows a user to select at least one a real time transmission and a polled transmission, wherein the signals comprise at least one e-mail message that is retrieved from a specified e-mail account associated with the at least one second communications device and are transmitted to one of the at least one first wireless communications device.

106. (Previously presented) The system according to claim 105 wherein the user selects a name of the specified e-mail account via the selection system.

107. (Previously presented) The system according to claim 106 wherein the user specifies a time at which the at least one e-mail message is transmitted from the at least one second communications device to the at least one first wireless communications device.

108. (Currently amended) A method of transmitting and/or receiving signals with at least two communication devices via a real time and/or a polled transmission, said method comprising the steps of:

determining based upon predetermined criteria whether the signals are to be transmitted in

real time or on a polled basis;

transmitting, upon determining that the signals are to be transmitted in real time, the

signals from at least a first wireless communications device to at least one of a second

communications device and a third wireless communication device via either a first

gateway or a second gateway, and transmitting, upon determining that the signals are

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to be transmitted on a polled basis, the signals from at least a fourth communications device to the at least one first wireless communications device via the first gateway and the second gateway[[:]], and
providing the sending and receiving of messages in on-the real time from a first data message account, and by the polled transmission from a second data message account, and processing messages to the at least one of the first and second wireless communications devices using processing means; and
processing messages on the at least one of the first and second wireless communications device stored within both the first and second data message accounts, and using, with the second data message account, while also allowing users to utilize the first wireless communications device to receive messages stored within at least one of POP and IMAP data message account.

109. (Previously presented) The method according to claim 108 wherein the at least one second gateway determines which of the at least one first wireless communications device is active.

110. (Previously presented) The method according to claim 108 wherein the at least one second gateway monitors which of the at least one first wireless communications device has requested to download a message from the at least one third wireless communications device.

111. (Previously presented) The method according to claim 108 wherein the at least one second gateway monitors when messages associated with each of the at least one first wireless communications device are to be downloaded.

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112. (Previously presented) The method according to claim 108 wherein the at least one second gateway recognizes an identifier associated with each message associated with each of the at least one first wireless communications device and selects those messages that have not been downloaded from the at least one third wireless communications device to the at least one first wireless communications device.

113. (Previously presented) The method according to claim 108 wherein the at least one second gateway retrieves messages not yet downloaded from the at least one third wireless communications device and transmits at least one message to a designated one of the at least one first wireless communications device.

114. (Previously presented) The method according to claim 108 wherein the predetermined criteria is one of a) an identifier associated with the at least one first wireless communications device and an identifier associated with the at least one second communications device, or b) an identifier associated with the at least one first wireless communications device and an identifier associated with the at least one third wireless communications device.

115. (Previously presented) The method according to claim 114, wherein the identifier comprises an Internet domain name comprising at least one of a name of an organization or a name of an individual combined with a top level domain name.

116. (Previously presented) The method according to claim 115 wherein the top level

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domain names comprise: a) .com; b) .net; c) .org; d) .edu; e) .gov; f) .mil; and g) .int.

117. (Previously presented) The method according to claim 108 wherein the signals comprise at least one of an electronic mail message, an electronic page, and a paging message.

118. (Previously presented) The method according to claim 108 wherein in a polled transmission the at least one first wireless communication device is a wireless device and the at least one third wireless communications device is a server.

119. (Previously presented) The method according to claim 118 wherein the server is a post office protocol server.

120. (Previously presented) The method according to claim 118 wherein the server is an internet messaging access protocol server.

121. (Previously presented) The method according to claim 118, wherein the at least one first wireless communications device comprises a wireless messaging device, the second communications device comprises a wireless messaging device, and the predetermined criteria comprises an identifier associated with the at least one first gateway.

122. (Previously presented) The method according to claim 108, wherein the at least one first wireless communications device is a wireless messaging device having a first identifier associated with said at least one first gateway and the at least one third wireless

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communications device is an e-mail server storing messages for at least one e-mail account, each e-mail account having a second identifier associated therewith, wherein the at least one first wireless communications device and the at least one third wireless communications device transmit signals to each other via said first and second gateways, and wherein the predetermined criteria are respective identifiers associated with each of the at least one first wireless communication device and the at least one third wireless communication device.

123. (Previously presented) The method according to claim 122 wherein the at least one second communications device is a post office protocol server.

124. (Previously presented) The method according to claim 122 wherein the at least one second communications device is an internet messaging access protocol server.

125. (Previously presented) The method according to claim 122, further comprising the step of selecting at least one of the real time and polled transmission, wherein when a user selects the polled transmission, the signals comprise at least one e-mail message that is retrieved from a specified e-mail account associated with the at least one third wireless communications device and are transmitted to one of the at least one first wireless communications device.

126. (Previously presented) The method according to claim 122 wherein the user specifies a time at which the at least one e-mail message is transmitted from the at least one third wireless communications device to the at least one first wireless communications device.

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127. (Previously presented) The method according to claim 122 wherein said at least one second gateway further at least one of transmits and receives signals on a real time basis with the at least one first wireless communication device and the at least one second communications device.

128. (Previously presented) The method according to claim 127 wherein network load considerations determine whether said at least one first gateway or said at least one second gateway is used to transmit signals from the at least one first wireless communications device to the at least one second communications device, wherein when system traffic and/or response time is above a predetermined threshold level said at least one second gateway is used.

129. (Previously presented) The method according to claim 122 further comprising the step of converting the message format of the at least one third wireless communications device to a message format of the at least one first wireless communications device.

130. (Previously presented) The method according to claim 122 further comprising the step of deleting a message record when a corresponding message is transmitted to the at least one first wireless communications device.